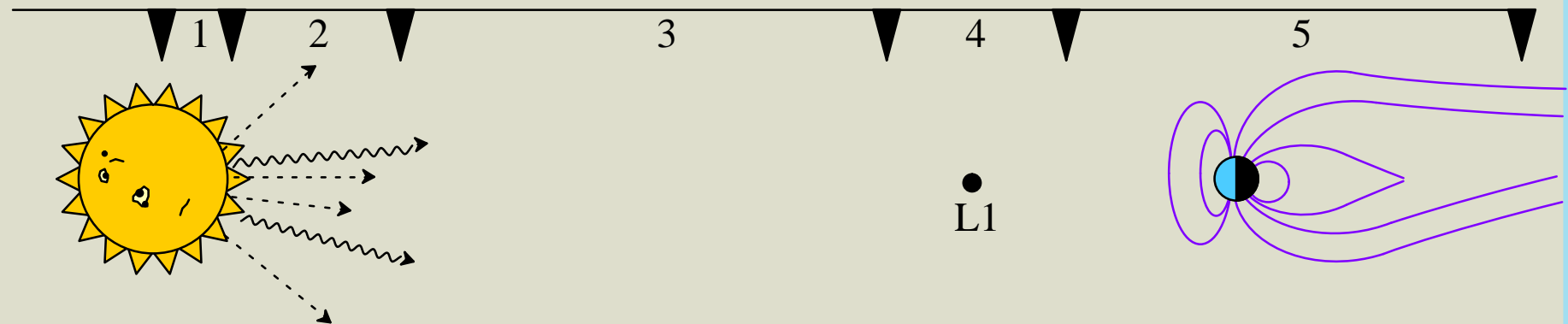


Strategy For Data-Driven Solar and Interplanetary Forecasting Model

Data Sources



1. Solar telescopes and Solar X-ray Imager (SXI) observe flares, and coronal holes (for high speed streams), and magnetic fields..
2. Solar/interplanetary model of background and transient solar wind and energetic particles uses solar observations as boundary and initial conditions
3. Instruments (SWATH, SMEI, SOHO, SPINS, etc.) confirm and measure disturbances.
4. Advanced Composition Explorer (ACE) at the Lagrange point (L1) provides the last warning before disturbances hit magnetosphere.
5. Magnetospheric, ionospheric, and thermospheric models use as input the output of the solar/interplanetary model and the data from ACE.